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|--------------|----|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | Jan 25 | BLAST(R) searching in REGISTRY available in STN on the Web |
| NEWS | 3 | Jan 29 | FSTA has been reloaded and moves to weekly updates |
| NEWS | 4 | Feb 01 | DKILIT now produced by FIZ Karlsruhe and has a new update frequency |
| NEWS | 5 | Feb 19 | Access via Tymnet and SprintNet Eliminated Effective 3/31/02 |
| NEWS | 6 | Mar 08 | Gene Names now available in BIOSIS |
| NEWS | 7 | Mar 22 | TOXLIT no longer available |
| NEWS | 8 | Mar 22 | TRCTHERMO no longer available |
| NEWS | 9 | Mar 28 | US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL |
| NEWS | 10 | Mar 28 | LIPINSKI/CALC added for property searching in REGISTRY |
| NEWS | 11 | Apr 02 | PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead. |
| NEWS | 12 | Apr 08 | "Ask CAS" for self-help around the clock |
| NEWS | 13 | Apr 09 | BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS | 14 | Apr 09 | ZDB will be removed from STN |
| NEWS | 15 | Apr 19 | US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS | 16 | Apr 22 | Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
| NEWS | 17 | Apr 22 | BIOSIS Gene Names now available in TOXCENTER |
| NEWS | 18 | Apr 22 | Federal Research in Progress (FEDRIP) now available |
| NEWS | 19 | Jun 03 | New e-mail delivery for search results now available |
| NEWS | 20 | Jun 10 | MEDLINE Reload |
| NEWS | 21 | Jun 10 | PCTFULL has been reloaded |
| NEWS EXPRESS | | | February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002 |
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=> s promoter(w)fragment? and plant

L1 664 PROMOTER(W) FRAGMENT? AND PLANT

=> s l1 and transform?

L2 269 L1 AND TRANSFORM?

=> s l2 and substitution?

L3 1 L2 AND SUBSTITUTION?

=> d l3 1

L3 ANSWER 1 OF 1 AGRICOLA

AN 95:54200 AGRICOLA

DN IND20476198

TI An aldose reductase homologous gene from barley: regulation and function.

AU Roncarati, R.; Salamini, F.; Bartels, D.

CS Max Planck Institut fur Zuchtungsforschung, Koln, Germany.

AV DNAL (QK710.P68)

SO The Plant journal : for cell and molecular biology, May 1995. Vol. 7, No. 5. p. 809-822

Publisher: Oxford : Blackwell Scientific Publishers and BIOS Scientific Publishers in association with the Society for Experimental Biology, c1991-

ISSN: 0960-7412

NTE Includes references

CY England; United Kingdom

DT Article

FS Non-U.S. Imprint other than FAO

LA English

=> d l3 ab

L3 ANSWER 1 OF 1 AGRICOLA

AB The expression of a barley gene homologous to aldose reductase and aldehyde reductase is restricted to the embryo and temporally correlated with its acquisition of desiccation tolerance. In the work presented, two aspects of this barley gene were investigated: its transcriptional regulation and the initial characterization of the enzymatic function. The transcriptional regulation of the gene was studied in transgenic tobacco by analysing the expression of chimeric genes containing 5' sequences of the barley gene transcriptionally fused to the GUS reporter gene. This functional analysis of the promoter revealed that a 1364 bp 5' fragment confers the appropriate pattern of expression to the reporter gene in tobacco and that a short ***promoter*** ***fragment*** (-114 to +75) containing the sequence TACGTGGC, homologous to ***plant*** G-box elements, is sufficient for developmental expression during embryogenesis. To investigate the enzymatic properties of the gene product the wild-type protein and a mutant carrying a lysine 259 to methionine ***substitution*** were overexpressed in a procaryotic system and purified to homogeneity. The wild-type protein exhibits aldose reductase activity in the reduction of DL-glyceraldehyde and D-erythrose specifically using NADPH as co-factor whereas the mutant shows markedly reduced activity. However, the barley protein possesses some properties different to those of animal aldose and aldehyde reductases and its biological target still needs to be identified.

=> s promoter and unpredictability and mutagenesis

L4 0 PROMOTER AND UNPREDICTABILITY AND MUTAGENESIS

=> s promoter and unpredictability

L5 5 PROMOTER AND UNPREDICTABILITY

=> d 15 1-5

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1998:436167 BIOSIS

DN PREV199800436167

TI Classification of breast cancer cells on the basis of a functional assay for estrogen receptor.

AU Biswas, Debajit K. (1); Averboukh, Lidia; Sheng, Shijie; Martin, Kathy; Ewaniuk, Darren S.; Jawde, Teddy F.; Wang, Feilan; Pardee, Arthur B.

CS (1) Div. Cancer Biol., Dana-Farber Cancer Inst., 44 Binney St., Boston, MA 02115 USA

SO Molecular Medicine (New York), (July, 1998) Vol. 4, No. 7, pp. 454-467. ISSN: 1076-1551.

DT Article

LA English

L5 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1994:350940 BIOSIS

DN PREV199497363940

TI Identification of a novel sugar-H⁺ symport protein, FucP, for transport of L-fucose into Escherichia coli.

AU Gunn, Frank J.; Tate, Christopher G.; Henderson, Peter J. F. (1)

CS (1) Dep. Biochem. and Molecular Biol., Univ. Leeds, Leeds LS2 9JT UK

SO Molecular Microbiology, (1994) Vol. 12, No. 5, pp. 799-809. ISSN: 0950-382X.

DT Article

LA English

L5 ANSWER 3 OF 5 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 94199348 EMBASE

DN 1994199348

TI Identification of a novel sugar-H⁺ symport protein, FucP, for transport of L-fucose into Escherichia coli.

AU Gunn F.J.; Tate C.G.; Henderson P.J.F.

CS Biochemistry/Molecular Biology Dept., University of Leeds, Leeds LS2 9JT, United Kingdom

SO Molecular Microbiology, (1994) 12/5 (799-809).

ISSN: 0950-382X CODEN: MOMIEE

CY United Kingdom

DT Journal; Article

FS 004 Microbiology

LA English

SL English

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS

AN 1998:566902 CAPLUS

DN 129:314245

TI Classification of breast cancer cells on the basis of a functional assay for estrogen receptor

AU Biswas, Debajit K.; Averboukh, Lidia; Sheng, Shijie; Martin, Kathy; Ewaniuk, Darren S.; Jawde, Teddy F.; Wang, Feilan; Pardee, Arthur B.

CS Division of Cancer Biology, Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA

SO Molecular Medicine (New York) (1998), 4(7), 454-467

CODEN: MOMEF3; ISSN: 1076-1551

PB Springer-Verlag New York Inc.

DT Journal

LA English

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

AN 1994:453670 CAPLUS

DN 121:53670

TI Identification of a novel sugar-H⁺ symport protein, FucP, for transport of L-fucose into Escherichia coli

AU Gunn, Frank J.; Tate, Christopher G.; Henderson, Peter J. F.

CS Dep. Biochem., Univ. Cambridge, Cambridge, CB2 1QW, UK

SO Mol. Microbiol. (1994), 12(5), 799-809

CODEN: MOMIEE; ISSN: 0950-382X

DT Journal

LA English

=> s promoter and mutagenesis

L6 10889 PROMOTER AND MUTAGENESIS

=> s promoter and random(w)mutagenesis

L7 131 PROMOTER AND RANDOM(W) MUTAGENESIS

=> s l7 inducible

MISSING OPERATOR L7 INDUCIBLE

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 17 and inducible
L8 10 L7 AND INDUCIBLE

=> d 18 1-10

L8 ANSWER 1 OF 10 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:557358 BIOSIS

DN PREV200100557358

TI Core ***promoter*** involvement in the induction of rat ornithine decarboxylase by phorbol esters.

AU Zhao, Biwei; Butler, Andrew P. (1)

CS (1) Science Park-Research Division, University of Texas M. D. Anderson Cancer Center, Smithville, TX, 78957 USA

SO Molecular Carcinogenesis, (October, 2001) Vol. 32, No. 2, pp. 92-99. print.

ISSN: 0899-1987.

DT Article

LA English

SL English

L8 ANSWER 2 OF 10 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:1573 BIOSIS

DN PREV200100001573

TI Cloning and ***random*** ***mutagenesis*** of the Erwinia herbicola tyrR gene for high-level expression of tyrosine phenol-lyase.

AU Katayama, Takane; Suzuki, Hideyuki; Koyanagi, Takashi; Kumagai, Hidehiko (1)

CS (1) Applied Molecular Microbiology, Division of Integrated Life Science, Graduate School of Biostudies, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto, 606-8502: hidekuma@kais.kyoto-u.ac.jp Japan

SO Applied and Environmental Microbiology, (November, 2000) Vol. 66, No. 11, pp. 4764-4771. print.

ISSN: 0099-2240.

DT Article

LA English

SL English

L8 ANSWER 3 OF 10 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1998:430337 BIOSIS

DN PREV199800430337

TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast Pichia pastoris and applications of the yeast system for functional analysis.

AU Doering, Frank; Michel, Tiana; Roesel, Annette; Nickolaus, Monika; Daniel, Hannelore (1)

CS (1) Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany

SO Molecular Membrane Biology, (April-June, 1998) Vol. 15, No. 2, pp. 79-88. ISSN: 0968-7688.

DT Article

LA English

L8 ANSWER 4 OF 10 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1996:59786 BIOSIS

DN PREV199698631921

TI Mode of ***promoter*** recognition by the Escherichia coli RNA polymerase holoenzyme containing the sigma-s subunit: Identification of

the recognition sequence of the fic ***promoter*** .
AU Hiratsu, Keiichiro; Shinagawa, Hideo; Makino, Kozo (1)
CS (1) Dep. Mol. Microbiol., Res. Inst. Microbial Diseases, Osaka University,
Osaka 565 Japan
SO Molecular Microbiology, (1995) Vol. 18, No. 5, pp. 841-850.
ISSN: 0950-382X.
DT Article
LA English

L8 ANSWER 5 OF 10 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 2001404979 EMBASE
TI Core ***promoter*** involvement in the induction of rat ornithine
decarboxylase by phorbol esters.
AU Zhao B.; Butler A.P.
CS A.P. Butler, University of Texas, M. D. Anderson Cancer Center, Science
Park-Research Division, P.O. Box 389, Smithville, TX 78957, United States
SO Molecular Carcinogenesis, (2001) 32/2 (92-99).
Refs: 39
ISSN: 0899-1987 CODEN: MOCAE8
CY United States
DT Journal; Article
FS 005 General Pathology and Pathological Anatomy
016 Cancer
LA English
SL English

L8 ANSWER 6 OF 10 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 2000392442 EMBASE
TI Cloning and ***random*** ***mutagenesis*** of the Erwinia
herbicola tyrR gene for high-level expression of tyrosine phenol-lyase.
AU Katayama T.; Suzuki H.; Koyanagi T.; Kumagai H.
CS H. Kumagai, Applied Molecular Microbiology, Division of Integrated Life
Science, Graduate School of Biostudies, Kitashirakawa, Sakyo-ku, Kyoto
606-8502, Japan. hidekuma@kais.kyoto-u.ac.jp
SO Applied and Environmental Microbiology, (2000) 66/11 (4764-4771).
Refs: 61
ISSN: 0099-2240 CODEN: AEMIDF
CY United States
DT Journal; Article
FS 004 Microbiology
LA English
SL English

L8 ANSWER 7 OF 10 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 1998286780 EMBASE
TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast
Pichia pastoris and applications of the yeast system for functional
analysis.
AU Doring F.; Michel T.; Rosel A.; Nickolaus M.; Daniel H.
CS H. Daniel, Institute of Nutritional Sciences, University of Giessen,
Wilhelmstrasse 20, D-35392 Giessen, Germany
SO Molecular Membrane Biology, (1998) 15/2 (79-88).
Refs: 26
ISSN: 0968-7688 CODEN: MMEBE7
CY United Kingdom
DT Journal; Article
FS 029 Clinical Biochemistry

LA English
SL English

L8 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 2001:867518 CAPLUS

DN 136:15871

TI Core ***promoter*** involvement in the induction of rat ornithine decarboxylase by phorbol esters

AU Zhao, Biwei; Butler, Andrew P.

CS Science Park-Research Division, The University of Texas M. D. Anderson Cancer Center, Smithville, TX, 78957, USA

SO Molecular Carcinogenesis (2001), 32(2), 92-99
CODEN: MOCAE8; ISSN: 0899-1987

PB Wiley-Liss, Inc.

DT Journal

LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 2000:798855 CAPLUS

DN 134:348793

TI Cloning and ***random*** ***mutagenesis*** of the Erwinia herbicola tyrR gene for high-level expression of tyrosine phenol-lyase

AU Katayama, Takane; Suzuki, Hideyuki; Koyanagi, Takashi; Kumagai, Hidehiko

CS Applied Molecular Microbiology, Division of Applied Life Sciences, Graduate School of Agriculture, Kyoto University, Kyoto, 606-8502, Japan

SO Applied and Environmental Microbiology (2000), 66(11), 4764-4771
CODEN: AEMIDF; ISSN: 0099-2240

PB American Society for Microbiology

DT Journal

LA English

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1998:533878 CAPLUS

DN 129:215745

TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast Pichia pastoris and applications of the yeast system for functional analysis

AU Doring, Frank; Michel, Tiana; Rosel, Annette; Nickolaus, Monika; Daniel, Hannelore

CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany

SO Molecular Membrane Biology (1998), 15(2), 79-88
CODEN: MMEBE7; ISSN: 0968-7688

PB Taylor & Francis Ltd.

DT Journal

LA English

=> s 17 and plant

L9 20 L7 AND PLANT

=> duplicate remove

ENTER L# LIST OR (END):19

DUPLICATE PREFERENCE IS 'BIOSIS, EMBASE, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
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L10 16 DUPLICATE REMOVE L9 (4 DUPLICATES REMOVED)

=> s l10 and induc?

L11 2 L10 AND INDUC?

=> d l11 1-2

L11 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1999:10476 BIOSIS
DN PREV199900010476
TI Sporulation-specific expression of the yeast DIT1/DIT2 ***promoter***
is controlled by a newly identified repressor element and the short form
of Rim10lp.
AU Bogengruber, Edith; Eichberger, Thomas; Briza, Peter; Dawes, Ian W.;
Breitenbach, Michael; Schrick, Roland (1)
CS (1) Inst. Genetik Allgemeine Biologie, Univ. Salzburg, Hellbrunnerstr. 34,
A-5020 Salzburg Austria
SO European Journal of Biochemistry, (Dec., 1998) Vol. 258, No. 2, pp.
430-436.
ISSN: 0014-2956.
DT Article
LA English

L11 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1998:430337 BIOSIS
DN PREV199800430337
TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast
Pichia pastoris and applications of the yeast system for functional
analysis.
AU Doering, Frank; Michel, Tiana; Roesel, Annette; Nickolaus, Monika; Daniel,
Hannelore (1)
CS (1) Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen
Germany
SO Molecular Membrane Biology, (April-June, 1998) Vol. 15, No. 2, pp. 79-88.
ISSN: 0968-7688.
DT Article
LA English

=> d l10 1-16

L10 ANSWER 1 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:322577 BIOSIS
DN PREV200200322577
TI Investigation of the binding sites and regulatory factors for RNA
polymerase II synthesis of rRNA in yeast.
AU Jodhka, Parmeet Kaur (1); Haymowicz, Matt (1); Conrad-Webb, Heather (1)
CS (1) Biology, Texas Woman's University, Denton, TX, 76204 USA
SO FASEB Journal, (March 20, 2002) Vol. 16, No. 4, pp. A5-A6.
<http://www.fasebj.org/>. print.
Meeting Info.: Annual Meeting of the Professional Research Scientists on
Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002
ISSN: 0892-6638.
DT Conference

LA English

L10 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2002 ACS

AN 2001:12610 CAPLUS

DN 134:96199

TI Identification of elements of ligand-regulated systems and their use in regulated expression systems

IN Choo, Yen; Ullman, Christopher Graeme

PA Gendaq Limited, UK

SO PCT Int. Appl., 125 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 6

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|--|-----------------|----------|
| PI | WO 2001000815 | A1 | 20010104 | WO 2000-GB2080 | 20000530 |
| | W: | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | |
| | RW: | | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | |
| EP | 1181360 | A1 | 20020227 | EP 2000-935360 | 20000530 |
| | R: | | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | |
| | WO 2001053479 | A2 | 20010726 | WO 2001-GB187 | 20010118 |
| | WO 2001053479 | A3 | 20020131 | | |
| | W: | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | |
| | RW: | | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | |
| PRAI | GB 1999-12635 | A | 19990528 | | |
| | GB 2000-1582 | A | 20000124 | | |
| | GB 2000-1578 | A | 20000124 | | |
| | WO 2000-GB2071 | W | 20000530 | | |
| | WO 2000-GB2080 | W | 20000530 | | |
| | GB 2000-29901 | A | 20001207 | | |

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:322949 BIOSIS

DN PREV200100322949

TI Novel human p53 mutations that are toxic to yeast can enhance transactivation of specific ***promoters*** and reactivate tumor p53 mutants.

AU Inga, Alberto; Resnick, Michael A. (1)

CS (1) Laboratory of Molecular Genetics, National Institute of Environmental

Health Sciences, NIH, Research Triangle Park, NC, NC27709 USA
SO Oncogene, (7 June, 2001) Vol. 20, No. 26, pp. 3409-3419. print.
ISSN: 0950-9232.
DT Article
LA English
SL English

L10 ANSWER 4 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2001:318880 BIOSIS
DN PREV200100318880
TI Construction of improved vectors and cassettes containing gusA and
antibiotic resistance genes for studies of transcriptional activity and
bacterial localization.
AU Wielbo, Jerzy; Skorupska, Anna (1)
CS (1) Department of General Microbiology, University of M. Curie-Sklodowska,
Akademicka 19 St., 20-033, Lublin: genet@biotop.umcs.lublin.pl Poland
SO Journal of Microbiological Methods, (July, 2001) Vol. 45, No. 3, pp.
197-205. print.
ISSN: 0167-7012.
DT Article
LA English
SL English

L10 ANSWER 5 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1
AN 2001:304391 BIOSIS
DN PREV200100304391
TI ***Random*** ***mutagenesis*** in a ***plant*** viral genome
using a DNA repair-deficient mutator Escherichia coli strain.
AU Lu, Xiaoyun; Hirata, H.; Yamaji, Y.; Ugaki, M.; Namba, S. (1)
CS (1) Laboratory of Bioresource Technology, Graduate School of Frontier
Sciences, University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo, 113-8657:
snamba@ims.u-tokyo.ac.jp Japan
SO Journal of Virological Methods, (May, 2001) Vol. 94, No. 1-2, pp. 37-43.
print.
ISSN: 0166-0934.
DT Article
LA English
SL English

L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 2000:454340 CAPLUS
DN 133:86089
TI ***Plant*** genes for protoporphyrinogen oxidases and the development
of herbicide-resistant forms of the enzyme
IN Volrath, Sandra L.; Johnson, Marie A.; Ward, Eric R.; Heifetz, Peter B.
PA Novartis A.-G., Switz.
SO U.S., 95 pp., Cont.-in-part of U.S. Ser. No. 59,164.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 9

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | US 6084155 | A | 20000704 | US 1998-102420 | 19980622 |
| | US 5767373 | A | 19980616 | US 1995-472028 | 19950606 |
| | US 5939602 | A | 19990817 | US 1997-808931 | 19970228 |

| | | | | | |
|------|-----------------|----|----------|----------------|----------|
| | US 6018105 | A | 20000125 | US 1997-808323 | 19970228 |
| | US 6023012 | A | 20000208 | US 1998-50603 | 19980330 |
| | US 6308458 | B1 | 20011030 | US 2000-497698 | 20000203 |
| PRAI | US 1995-472028 | A2 | 19950606 | | |
| | US 1996-12705P | P | 19960228 | | |
| | US 1996-13612P | P | 19960228 | | |
| | US 1996-20003P | P | 19960621 | | |
| | US 1997-808931 | A2 | 19970228 | | |
| | US 1998-126430P | P | 19980311 | | |
| | US 1998-50603 | A2 | 19980330 | | |
| | US 1998-59164 | A2 | 19980413 | | |
| | US 1994-261198 | B2 | 19940616 | | |
| | US 1998-102420 | A3 | 19980622 | | |

RE.CNT 155 THERE ARE 155 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:324454 BIOSIS
DN PREV200000324454
TI ***Random*** ***mutagenesis*** and functional analysis of the
Ran-binding protein, RanBP1.
AU Petersen, Clark; Orem, Nicholas; Trueheart, Joshua; Thorner, Jeremy W.;
Macara, Ian G. (1)
CS (1) Markey Center for Cell Signaling, University of Virginia, 7191,
Hospital West, Charlottesville, VA, 22908 USA
SO Journal of Biological Chemistry, (February 11, 2000) Vol. 275, No. 6, pp.
4081-4091. print.
ISSN: 0021-9258.
DT Article
LA English
SL English

L10 ANSWER 8 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2
AN 2001:102652 BIOSIS
DN PREV200100102652
TI Improvement of beta-amylase thermostability in transgenic barley seeds and
transgene stability in progeny.
AU Kihara, Makoto (1); Okada, Yukio; Kuroda, Hisao; Saeki, Kazuo; Yoshigi,
Naohiro; Ito, Kazutoshi
CS (1) Plant Bioengineering Research Laboratories, Sapporo Breweries Ltd.,
37-1, Kizaki, Nitta, Gunma, 370-0393: makoto.kihara@sapporobeer.co.jp
Japan
SO Molecular Breeding, (October, 2000) Vol. 6, No. 5, pp. 511-517. print.
ISSN: 1380-3743.
DT Article
LA English
SL English

L10 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 2000:42431 CAPLUS
DN 132:162008
TI Analysis of flanking sequences from Dissociation insertion lines: a
database for reverse genetics in Arabidopsis
AU Parinov, Serguei; Sevugan, Mayalagu; Ye, De; Yang, Wei-Cai; Kumaran,
Mande; Sundaresan, Venkatesan
CS Institute of Molecular Agrobiolgy, National University of Singapore,

Singapore, 117604, Singapore
SO Plant Cell (1999), 11(12), 2263-2270
CODEN: PLCEEW; ISSN: 1040-4651
PB American Society of Plant Physiologists
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1999:212260 BIOSIS
DN PREV199900212260
TI Cooperation of two actin-binding proteins, cofilin and Aip1, in
Saccharomyces cerevisiae.
AU Iida, Kazuko; Yahara, Ichiro (1)
CS (1) Department of Cell Biology, Tokyo Metropolitan Institute of Medical
Science, Honkomagome 3-18-22, Bunkyo-ku, Tokyo, 113-8613 Japan
SO Genes to Cells, (Jan., 1999) Vol. 4, No. 1, pp. 21-32.
ISSN: 1356-9597.
DT Article
LA English
SL English

L10 ANSWER 11 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1999:10476 BIOSIS
DN PREV199900010476
TI Sporulation-specific expression of the yeast DIT1/DIT2 ***promoter***
is controlled by a newly identified repressor element and the short form
of Rim101p.
AU Bogengruber, Edith; Eichberger, Thomas; Briza, Peter; Dawes, Ian W.;
Breitenbach, Michael; Schrickner, Roland (1)
CS (1) Inst. Genetik Allgemeine Biologie, Univ. Salzburg, Hellbrunnerstr. 34,
A-5020 Salzburg Austria
SO European Journal of Biochemistry, (Dec., 1998) Vol. 258, No. 2, pp.
430-436.
ISSN: 0014-2956.
DT Article
LA English

L10 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 1998:454010 CAPLUS
DN 129:212204
TI Several strategies for dissecting and controlling functions in
plant cells
AU Kobayashi, Hirokazu; Yoshimoto, Kohki; Sakaiya, Mao; Narusaka, Yoshihiro;
Sheen, Jen; Niwa, Yasuo
CS Laboratory of Plant Cell Technology, Graduate School of Nutritional and
Environmental Sciences, University of Shizuoka, Shizuoka, 422, Japan
SO Developments in Plant Pathology (1998), 13(Molecular Genetics of
Host-Specific Toxins in Plant Disease), 399-400
CODEN: DPPAEF; ISSN: 0929-1318
PB Kluwer Academic Publishers
DT Journal
LA English

L10 ANSWER 13 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1998:430337 BIOSIS

DN PREV199800430337
 TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast *Pichia pastoris* and applications of the yeast system for functional analysis.
 AU Doering, Frank; Michel, Tiana; Roesel, Annette; Nickolaus, Monika; Daniel, Hannelore (1)
 CS (1) Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany
 SO Molecular Membrane Biology, (April-June, 1998) Vol. 15, No. 2, pp. 79-88. ISSN: 0968-7688.
 DT Article
 LA English

L10 ANSWER 14 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1994:497990 BIOSIS
 DN PREV199497510990
 TI Strategies for improving heterologous protein production from filamentous fungi.
 AU Archer, David B.; Jeenes, David J.; MacKenzie, Donald A.
 CS Inst. Food Res., Norwich Research Park, Colney, Norwich NR4 7UA UK
 SO Antonie van Leeuwenhoek, (1994) Vol. 65, No. 3, pp. 245-250. ISSN: 0003-6072.
 DT Article
 LA English

L10 ANSWER 15 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1993:499882 BIOSIS
 DN PREV199396123889
 TI Mutational analysis of the *Saccharomyces cerevisiae* general regulatory factor CPl.
 AU Masison, Daniel C.; O'Connell, Kevin F.; Baker, Richard E. (1)
 CS (1) Dep. Mol. Genetics Microbiol., University Massachusetts Med. Sch., 55 Lake Ave. North, Worcester, MA 01655 USA
 SO Nucleic Acids Research, (1993) Vol. 21, No. 17, pp. 4133-4141. ISSN: 0305-1048.
 DT Article
 LA English

L10 ANSWER 16 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 3
 AN 1985:296561 BIOSIS
 DN BA79:76557
 TI STUDY OF THE GENETIC ORGANIZATION OF A ***PLANT*** VIRAL RNA GENOME BY IN-VITRO EXPRESSION OF A FULL-LENGTH DNA COPY.
 AU VOS P; VERVER J; VAN WEZENBEEK P; VAN KAMMEN A; GOLDBACH R
 CS DEP. MOL. BIOL., AGRIC. UNIV., DE DREIJEN 11, 6703 BC WAGENINGEN, NETH.
 SO EMBO (EUR MOL BIOL ORGAN) J, (1984 (RECD 1985)) 3 (13), 3049-3054. CODEN: EMJODG. ISSN: 0261-4189.
 FS BA; OLD
 LA English

=> d 8 9 12 ab

2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
 The answer numbers requested are not in the answer set.
 ENTER ANSWER NUMBER OR RANGE (1):110
 ANSWER NUMBERS NOT CORRECTLY SPECIFIED

Enter an answer number, Example: 10
several answer numbers, Example: 3,7,10
a range of answer numbers, Example: 5-10
or a combination of these. Example: 3,7,9-10,15
ENTER ANSWER NUMBER OR RANGE (1):8 9 10

2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):1

L11 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB Expression of the yeast genes DIT1 and DIT2 is confined to mid/late sporulation. Transcription of these two divergently arranged genes is controlled by a common 900-bp intergenic region. ***Random***
mutagenesis of this ***promoter*** and tests with appropriate reporter constructs identified an 11-bp cis-acting palindromic sequence, DIT repressor element (DRE), as a major negative regulatory site during vegetative growth. Repression is exerted by DRE in conjunction with a mid-sporulation element (MSE)-like sequence situated 26 bp away. These sequence elements are both contained within the 76-bp negative regulatory element (NRE) defined previously (Friesen H., Hepworth, S. R. & Segall, J. (1997) Mol. Cell. Biol. 17, 123-134). The activated form of Rim101p, a transcriptional ***inducer*** of the early meiotic gene IME1, enhances expression from the DM ***promoter*** both in vegetative and sporulating cells. Activation by Rim101p does not seem to involve binding of Rim101p at either of the two cis-acting sites described here, since reporter constructs with both elements or most of the NRE deleted could still be activated by the short form of Rim101p.

=> s promoter? and mutagenesis and loss(w)of(w)activity
L12 0 PROMOTER? AND MUTAGENESIS AND LOSS(W) OF(W) ACTIVITY

=> s promoter? and mutagenesis
L13 10990 PROMOTER? AND MUTAGENESIS

=> s l13 and plant
L14 961 L13 AND PLANT

=> s l14 and site(w)directed(w)mutagenesis
L15 267 L14 AND SITE(W) DIRECTED(W) MUTAGENESIS

=> s l14 and site(w)directed(w)mutagenesis.ab.
L16 0 L14 AND SITE(W) DIRECTED(W) MUTAGENESIS.AB.

=> s l14 and site(w)directed(w)mutagenesis/ti
L17 19 L14 AND SITE(W) DIRECTED(W) MUTAGENESIS/TI

=> d l17 1-19

L17 ANSWER 1 OF 19 AGRICOLA
AN 1999:32784 AGRICOLA
DN IND21980767
TI Cloning of a thermostable ascorbate oxidase gene from Acremonium sp. HI-25 and modification of the azide sensitivity of the enzyme by ***site*** -
directed ***mutagenesis***
AU Takeda, K.; Itoh, H.; Yoshioka, I.; Yamamoto, M.; Misaki, H.; Kajita, S.; Shirai, K.; Kato, M.; Shin, T.; Murao, S.

CS Ichibiki, Co., Ltd., Toyohashi, Japan.
AV DNAL (381 B522)
SO Biochimica et biophysica acta = International journal of biochemistry and biophysics, Nov 10, 1998. Vol. 1388, No. 2. p. 444-456
Publisher: Amsterdam : Elsevier Science B.V.
CODEN: BBACAQ; ISSN: 0006-3002
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L17 ANSWER 2 OF 19 AGRICOLA
AN 1999:29429 AGRICOLA
DN CAT10866277
TI ***Site*** - ***directed*** ***mutagenesis*** of the enhancer region from the 780 T- DNA ***promoter*** .
AU O'Grady, Kevin
SO 1993 v, 73 leaves : ill., photos ; 29 cm
Publisher: 1993
NTE Typescript.
Vita.
Thesis (Ph. D.)--University of Florida, 1993
Includes bibliographical references (leaves 67-72).
CY No place, unknown, or undetermined
DT Bibliography; Dissertation; (MONOGRAPH)
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L17 ANSWER 3 OF 19 AGRICOLA
AN 97:35276 AGRICOLA
DN IND20566228
TI Efficient expression of the genes for spinach phosphoribulokinase in Pichia pastoris and utilization of the recombinant enzyme to explore the role of regulatory cysteinyl residues by ***site*** - ***directed*** ***mutagenesis*** .
AU Brandes, H.K.; Hartman, F.C.; Lu, T.Y.S.; Larimer, F.W.
CS University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences, Oak Ridge, TN.
AV DNAL (381 J824)
SO The Journal of biological chemistry, Mar 15, 1996. Vol. 271, No. 11. p. 6490-6496
Publisher: Bethesda, Md. : American Society for Biochemistry and Molecular Biology.
CODEN: JBCHA3; ISSN: 0021-9258
NTE Includes references
CY Maryland; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L17 ANSWER 4 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:452175 BIOSIS
DN PREV200000452175
TI Identification of active site carboxylic residues in Trichoderma reesei endoglucanase Cell12A by ***site*** - ***directed*** ***mutagenesis*** .

AU Okada, Hirofumi; Mori, Kazuki; Tada, Kohji; Nogawa, Masahiro; Morikawa, Yasushi (1)
 CS (1) Department of Bioengineering, Nagaoka University of Technology, 1603-1, Kamitomioka, Nagaoka, Niigata, 940-2188 Japan
 SO Journal of Molecular Catalysis B Enzymatic, (4 September, 2000) Vol. 10, No. 1-3, pp. 249-255. print.
 ISSN: 1381-1177.
 DT Article
 LA English
 SL English

L17 ANSWER 5 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1999:468228 BIOSIS
 DN PREV199900468228
 TI Expression of the isoamylase gene of Flavobacterium odoratum KU in Escherichia coli and identification of essential residues of the enzyme by ***site*** - ***directed*** ***mutagenesis*** .
 AU Abe, Jun-ichi (1); Ushijima, Chiaki; Hizukuri, Susumu
 CS (1) Department of Biochemical Science and Technology, Faculty of Agriculture, Kagoshima University, Korimoto-1-21-24, Kagoshima, 890 Japan
 SO Applied and Environmental Microbiology, (Sept., 1999) Vol. 65, No. 9, pp. 4163-4170.
 ISSN: 0099-2240.
 DT Article
 LA English
 SL English

L17 ANSWER 6 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1999:35610 BIOSIS
 DN PREV199900035610
 TI Cloning of a thermostable ascorbate oxidase gene from Acremonium sp. HI-25 and modification of the azide sensitivity of the enzyme by ***site*** - ***directed*** ***mutagenesis*** .
 AU Takeda, Kayoko; Itoh, Homare; Yoshioka, Issei; Yamamoto, Megumi; Misaki, Hideo; Kajita, Sachiko; Shirai, Kengo; Kato, Masashi; Shin, Takashi; Murao, Sawao; Tsukagoshi, Norihiro (1)
 CS (1) Dep. Biological Mechanisms Functions, Graduate Sch. Bioagricultural Sci., Nagoya Univ., Nagoya 464-8601 Japan
 SO Biochimica et Biophysica Acta, (Nov. 10, 1998) Vol. 1388, No. 2, pp. 444-456.
 ISSN: 0006-3002.
 DT Article
 LA English

L17 ANSWER 7 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1996:187799 BIOSIS
 DN PREV199698743928
 TI Efficient expression of the gene for spinach phosphoribulokinase in Pichia pastoris and utilization of the recombinant enzyme to explore the role of regulatory cysteinyl residues by ***site*** - ***directed*** ***mutagenesis*** .
 AU Brandes, Hillel K.; Hartman, Fred C.; Lu, Tse-Yuan S.; Larimer, Frank W. (1)
 CS (1) Biol. Div., Oak Ridge Natl. Lab., P.O. Box 2009, Oak Ridge, TN 37831-8077 USA
 SO Journal of Biological Chemistry, (1996) Vol. 271, No. 11, pp. 6490-6496.
 ISSN: 0021-9258.

DT Article
LA English

L17 ANSWER 8 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:107171 BIOSIS
DN PREV199698679306
TI Study of putative glycosylation sites in bovine beta-casein introduced by
PCR-based ***site*** - ***directed*** ***mutagenesis*** .
AU Choi, Byung-Kwon; Jimenez-Flores, Rafael (1)
CS (1) Dep. Dairy Sci., Calif. Polytechnic State Univ., San Luis Obispo, CA
93407 USA
SO Journal of Agricultural and Food Chemistry, (1996) Vol. 44, No. 1, pp.
358-364.
ISSN: 0021-8561.

DT Article
LA English

L17 ANSWER 9 OF 19 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:533698 BIOSIS
DN PREV199598547998
TI ***Site*** - ***directed*** ***mutagenesis*** of the enhancer
region of the 780 gene ***promoter*** of T-DNA.
AU O'Grady, Kevin; Gurley, William B. (1)
CS (1) Dep. Microbiol. Cell Sci., Program Plant Mol. Cell. Biol., Box 110700,
Univ. Fla., Gainesville, FL 32611-0700 USA
SO Plant Molecular Biology, (1995) Vol. 29, No. 1, pp. 99-108.
ISSN: 0167-4412.

DT Article
LA English

L17 ANSWER 10 OF 19 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 1999313845 EMBASE
TI Expression of the isoamylase gene of Flavobacterium odoratum KU in
Escherichia coli and identification of essential residues of the enzyme by
site - ***directed*** ***mutagenesis*** .
AU Abe J.-I.; Ushijima C.; Hizukuri S.
CS J.-I. Abe, Dept. of Biochemical Sci./Technol., Faculty of Agriculture,
Kagoshima University, Korimoto-1-21-24, Kagoshima 890, Japan
SO Applied and Environmental Microbiology, (1999) 65/9 (4163-4170).
Refs: 48
ISSN: 0099-2240 CODEN: AEMIDF

CY United States
DT Journal; Article
FS 004 Microbiology
LA English
SL English

L17 ANSWER 11 OF 19 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 1998391533 EMBASE
TI Cloning of a thermostable ascorbate oxidase gene from Acremonium sp. HI-25
and modification of the azide sensitivity of the enzyme by ***site*** -
directed ***mutagenesis*** .
AU Takeda K.; Itoh H.; Yoshioka I.; Yamamoto M.; Misaki H.; Kajita S.; Shirai
K.; Kato M.; Shin T.; Murao S.; Tsukagoshi N.
CS N. Tsukagoshi, Dept. Biological Mechanisms, Graduate School, Nagoya
University, Nagoya 464-8601, Japan. nuagrl.agr.nagoya-u.ac.jp
SO Biochimica et Biophysica Acta - Protein Structure and Molecular

Enzymology, (1998) 1388/2 (444-456).

Refs: 28

ISSN: 0167-4838 CODEN: BBAEDZ

PUI S 0167-4838(98)00206-4

CY Netherlands

DT Journal; Article

FS 004 Microbiology

LA English

SL English

L17 ANSWER 12 OF 19 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 96086791 EMBASE

DN 1996086791

TI Efficient expression of the gene for spinach phosphoribulokinase in Pichia pastoris and utilization of the recombinant enzyme to explore the role of regulatory cysteinyl residues by ***site*** - ***directed***
mutagenesis .

AU Brandes H.K.; Hartman F.C.; Lu T.-Y.S.; Larimer F.W.

CS Biology Div., Oak Ridge National Laboratory, P. O. Box 2009, Oak Ridge, TN 37831-8077, United States

SO Journal of Biological Chemistry, (1996) 271/11 (6490-6496).

ISSN: 0021-9258 CODEN: JBCHA3

CY United States

DT Journal; Article

FS 029 Clinical Biochemistry

LA English

SL English

L17 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 2000:835449 CAPLUS

DN 134:26089

TI Three mutant genes for tobacco mosaic virus coat protein generated by PCR
site - ***directed*** ***mutagenesis***

IN Li, Yi; Chen, Zhangliang; Zhou, Beiyang; Li, Enhui; Yu, Li

PA Beijing Univ., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | CN 1254757 | A | 20000531 | CN 1998-125113 | 19981124 |

L17 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1999:673057 CAPLUS

DN 131:308411

TI Interconversion of ***plant*** fatty acid desaturases and hydroxylases
by ***site*** - ***directed*** ***mutagenesis***

IN Broun, Pierre; Shanklin, John; Whittle, Edward J.; Somerville, Chris

PA USA

SO PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------------|------|------|-----------------|------|
|--|------------|------|------|-----------------|------|

| | | | | | |
|------|---|----|----------|-----------------|----------|
| PI | WO 9953073 | A2 | 19991021 | WO 1999-US8400 | 19990416 |
| | WO 9953073 | A3 | 20000210 | | |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2326687 | AA | 19991021 | CA 1999-2326687 | 19990416 |
| | AU 9938620 | A1 | 19991101 | AU 1999-38620 | 19990416 |
| | EP 1071785 | A2 | 20010131 | EP 1999-921394 | 19990416 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| PRAI | US 1998-81936P | P | 19980416 | | |
| | US 1999-123168P | P | 19990305 | | |
| | WO 1999-US8400 | W | 19990416 | | |

L17 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1999:594000 CAPLUS
DN 131:333847
TI Expression of the isoamylase gene of Flavobacterium odoratum KU in Escherichia coli and identification of essential residues of the enzyme by ***site*** - ***directed*** ***mutagenesis***
AU Abe, Jun-Ichi; Ushijima, Chiaki; Hizukuri, Susumu
CS Department of Biochemical Science and Technology, Faculty of Agriculture, Kagoshima University, Kagoshima, 890, Japan
SO Applied and Environmental Microbiology (1999), 65(9), 4163-4170
CODEN: AEMIDF; ISSN: 0099-2240
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1998:777811 CAPLUS
DN 130:134805
TI Cloning of a thermostable ascorbate oxidase gene from Acremonium sp. HI-25 and modification of the azide sensitivity of the enzyme by ***site*** - ***directed*** ***mutagenesis***
AU Takeda, Kayoko; Itoh, Homare; Yoshioka, Issei; Yamamoto, Megumi; Misaki, Hideo; Kajita, Sachiko; Shirai, Kengo; Kato, Masashi; Shin, Takashi; Murao, Sawao; Tsukagoshi, Norihiro
CS Research Laboratory, Ichibiki Co., Ltd., Toyohashi, Aichi, 441-8019, Japan
SO Biochimica et Biophysica Acta (1998), 1388(2), 444-456
CODEN: BBACAQ; ISSN: 0006-3002
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1996:175404 CAPLUS
DN 124:224905
TI Efficient expression of the gene for spinach phosphoribulokinase in *Pichia pastoris* and utilization of the recombinant enzyme to explore the role of regulatory cysteinyl residues by ***site*** - ***directed***
mutagenesis
AU Brandes, Hillel K.; Hartman, Fred C.; Lu, Tse-Yuan S.; Larimer, Frank W.
CS Biol. Div., Oak Ridge Natl. Lab., Oak Ridge, TN, 37831, USA
SO J. Biol. Chem. (1996), 271(11), 6490-6
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English

L17 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1994:70677 CAPLUS

DN 120:70677

TI ***Site*** - ***directed*** ***mutagenesis*** of the organ-specific element in the soybean leghemoglobin lbc3 gene
promoter

AU Ramlov, Karsten Bak; Laursen, Niels Bech; Stougaard, Jens; Marcker, Kjeld A.

CS Dep. Mol. Biol., Univ. Aarhus, Aarhus, DK-8000, Den.

SO Plant J. (1993), 4(3), 577-580

CODEN: PLJUED; ISSN: 0960-7412

DT Journal

LA English

L17 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1989:568252 CAPLUS

DN 111:168252

TI Identification of the initiation codons for translation of cowpea mosaic virus middle component RNA using ***site*** - ***directed***
mutagenesis of an infectious cDNA clone

AU Holness, C. L.; Lomonosoff, G. P.; Evans, D.; Maule, A. J.

CS John Innes Inst., Norwich, NR4 7UH, UK

SO Virology (1989), 172(1), 311-20

CODEN: VIRLAX; ISSN: 0042-6822

DT Journal

LA English

<-----User Break----->

=> d 117 18

L17 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1994:70677 CAPLUS

DN 120:70677

TI ***Site*** - ***directed*** ***mutagenesis*** of the organ-specific element in the soybean leghemoglobin lbc3 gene
promoter

AU Ramlov, Karsten Bak; Laursen, Niels Bech; Stougaard, Jens; Marcker, Kjeld A.

CS Dep. Mol. Biol., Univ. Aarhus, Aarhus, DK-8000, Den.

SO Plant J. (1993), 4(3), 577-580

CODEN: PLJUED; ISSN: 0960-7412

DT Journal

LA English

=> d 117 18 ab

L17 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2002 ACS

AB The expression of a soybean legHb 5' lbc3--GUS-3' nos chimeric gene was analyzed in Lotus corniculatus after site-specific ***mutagenesis*** of the nodulin consensus sequences, AAAGAT and CTCTT, present in the organ-specific element (OSE) (-139 to -102). Full-length ***promoters*** (-1956, +46) carrying clustered point mutations in the CTCTT sequence or in both the AAAGAT and the CTCTT sequences were inactive. Point mutations in the AAAGAT sequence had only minor effects on the expression level. Substitution of the ATTG sequence between the AAAGAT and the CTCTT sequences in the OSE reduced the activity in nodules to 10%. This, together with the conservation of the ATTGT sequence in the same position of legHb genes from other legumes, indicates that these sequences, in addn. to the nodulin consensus sequences of the OSE, are important for high-level nodule-specific expression. Substitution of the CTCTT sequences outside the OSE (-44, -40 and -79, -75) results in ***promoter*** activities of approx. 50%.

=> s promoter/ti

L18 77701 PROMOTER/TI

=> s 118 and mutagenesis/ti

L19 247 L18 AND MUTAGENESIS/TI

=> s 119 and plant/ti

L20 3 L19 AND PLANT/TI

=> d 120 1-3

L20 ANSWER 1 OF 3 AGRICOLA

AN 96:2050 AGRICOLA

DN IND20491094

TI Insertional ***mutagenesis*** and ***promoter*** trapping in ***plants*** for the isolation of genes and the study of development.

AU Topping, J.F.; Lindsey, K.

CS University of Leicester, Leicester, UK.

AV DNAL (QH442.6.T74)

SO Transgenic research, Sept 1995. Vol. 4, No. 5. p. 291-305

Publisher: London, UK : Chapman & Hall, c1991-

CODEN: TRSEES; ISSN: 0962-8819

NTE Includes references

CY England; United Kingdom

DT Article; Law

FS Non-U.S. Imprint other than FAO

LA English

L20 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1995:484550 BIOSIS

DN PREV199598498850

TI Insertional ***mutagenesis*** and ***promoter*** trapping in ***plants*** for the isolation of genes and the study of development.

AU Topping, Jennifer F.; Lindsey, Keith (1)

CS (1) Dep. Bot., Univ. Leicester, Leicester LE1 7RH UK
SO Transgenic Research, (1995) Vol. 4, No. 5, pp. 291-305.
ISSN: 0962-8819.
DT General Review
LA English

L20 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

AN 1995:810149 CAPLUS

DN 123:219358

TI Insertional ***mutagenesis*** and ***promoter*** trapping in
plants for the isolation of genes and the study of development

AU Topping, Jennifer F.; Lindsey, Keith

CS Dep. Botany, Univ. Leicester, Leicester, LE1 7RH, UK

SO Transgenic Res. (1995), 4(5), 291-305

CODEN: TRSEES; ISSN: 0962-8819

DT Journal; General Review

LA English

=> s l19 and reduced(w) activity

L21 0 L19 AND REDUCED(W) ACTIVITY

=> s l19 and loss(w)of(w)activity

L22 0 L19 AND LOSS(W) OF(W) ACTIVITY

=> s l19 and activity

L23 107 L19 AND ACTIVITY

=> s l23 and unexpected

L24 0 L23 AND UNEXPECTED

=> s l24 and unpredictable

L25 0 L24 AND UNPREDICTABLE

=> d l23 1-10 au ti

L23 ANSWER 1 OF 107 AGRICOLA

AU Mioulet, V.; Barrett, T.; Baron, M.D.

TI Scanning ***mutagenesis*** identifies critical residues in the
rinderpest virus genome ***promoter*** .

L23 ANSWER 2 OF 107 AGRICOLA

AU Martirani, L.; Stiller, J.; Mirabella, R.; Alfano, F.; Lamberti, A.;

Radutoiu, S.E.; Iaccarino, M.; Gresshoff, P.M.; Chiurazzi, M.

TI T-DNA tagging of nodulation- and root-related genes in Lotus japonicus:
expression patterns and potential for ***promoter*** trapping and
insertional ***mutagenesis*** .

L23 ANSWER 3 OF 107 AGRICOLA

AU Kilstrup, M.; Jessing, S.G.; Wichmand-Jorgensen, S.B.; Madsen, M.;

Nilsson, D.

TI Activation control of pur gene expression in Lactococcus lactis: proposal
for a consensus activator binding sequence based on deletion analysis and
site-directed ***mutagenesis*** of purC and purD ***promoter***
regions.

L23 ANSWER 4 OF 107 AGRICOLA

AU Chang, C.; Winans, S.C.
 TI Resection and ***mutagenesis*** of the acid pH-inducible P2
 promoter of the Agrobacterium tumefaciens virG gene.

L23 ANSWER 5 OF 107 AGRICOLA
 AU O'Grady, K.; Gurley, W.B.
 TI Site-directed ***mutagenesis*** of the enhancer region of the 780 gene
 promoter of T-DNA.

L23 ANSWER 6 OF 107 AGRICOLA
 AU Becker, A.; Schmidt, M.; Jager, W.; Puhler, A.
 TI New gentamicin-resistance and lacZ ***promoter*** -probe cassettes
 suitable for insertion ***mutagenesis*** and generation of
 transcriptional fusions.

L23 ANSWER 7 OF 107 AGRICOLA
 AU Hernando, Y.; Palacios, J.M.; Imperial, J.; Ruiz-Argueso, T.
 TI The hypBFCDE operon from Rhizobium leguminosarum biovar viciae is
 expressed from an Fnr-type ***promoter*** that escapes
 mutagenesis of the fnrN gene.

L23 ANSWER 8 OF 107 AGRICOLA
 AU Szczyglowski, K.; Szabados, L.; Fujimoto, S.Y.; Silver, D.; De Bruijn,
 F.J.
 TI Site-specific ***mutagenesis*** of the nodule-infected cell expression
 (NICE) element and the AT-rich element ATRE-BS2* of the Sesbania rostrata
 leghemoglobin glb3 ***promoter*** .

L23 ANSWER 9 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AU Mioulet, Valerie; Barrett, Thomas; Baron, Michael D. (1)
 TI Scanning ***mutagenesis*** identifies critical residues in the
 rinderpest virus genome ***promoter*** .

L23 ANSWER 10 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AU Griffith, Kevin L.; Wolf, Richard E., Jr. (1)
 TI Systematic ***mutagenesis*** of the DNA binding sites for SoxS in the
 Escherichia coli zwf and fpr ***promoters*** : Identifying nucleotides
 required for DNA binding and transcription activation.

=> d 123 11-20

L23 ANSWER 11 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2001:209637 BIOSIS
 DN PREV200100209637
 TI ***Mutagenesis*** of the downstream region of the Escherichia coli hns
 promoter .
 AU Giangrossi, M.; Gualerzi, C. O. (1); Pon, C. L.
 CS (1) Laboratory of Genetics, Department of Biology MCA, University of
 Camerino, 62032, Camerino (MC): gualerzi@cambio.unicam.it Italy
 SO Biochimie (Paris), (February, 2001) Vol. 83, No. 2, pp. 251-259. print.
 ISSN: 0300-9084.
 DT Article
 LA English
 SL English

L23 ANSWER 12 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:114586 BIOSIS
 DN PREV200100114586
 TI Saturation ***mutagenesis*** of the haloarchaeal bop gene
 promoter : Identification of DNA supercoiling sensitivity sites
 and
 absence of TFB recognition element and UAS enhancer ***activity*** .
 AU Baliga, Nitin S.; DasSarma, Shiladitya (1)
 CS (1) Department of Microbiology, University of Massachusetts, 203 Morrill
 Science Center IV-N, Amherst, MA, 01003: dassarma@microbio.umass.edu USA
 SO Molecular Microbiology, (June, 2000) Vol. 36, No. 5, pp. 1175-1183. print.
 ISSN: 0950-382X.
 DT Article
 LA English
 SL English

L23 ANSWER 13 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2000:305636 BIOSIS
 DN PREV200000305636
 TI Saturation ***mutagenesis*** of the haloarchaeal bop gene
 promoter : Identification of DNA supercoiling sensitivity sites
 and
 absence of TFB recognition element and UAS enhancer ***activity*** .
 AU Baliga, Nitin S.; DasSarma, Shiladitya (1)
 CS (1) Department of Microbiology, University of Massachusetts, 203 Morrill
 Science Center IV-N, Amherst, MA, 01003 USA
 SO Journal of General Physiology, (June, 2000) Vol. 36, No. 5, pp. 1175-1183.
 print.
 ISSN: 0022-1295.
 DT Article
 LA English
 SL English

L23 ANSWER 14 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2000:243285 BIOSIS
 DN PREV200000243285
 TI Effects of saturation ***mutagenesis*** of the phage SP6
 promoter on transcription ***activity*** , presented by
 activity logos.
 AU Shin, Inkyung; Kim, Jinsuk; Cantor, Charles R.; Kang, Changwon (1)
 CS (1) Department of Biological Sciences, Korea Advanced Institute of Science
 and Technology, 373-1 Kusong-dong, Yusong-gu, Taejon, 305-701 South Korea
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (April 11, 2000) Vol. 97, No. 8, pp. 3890-3895.
 ISSN: 0027-8424.
 DT Article
 LA English
 SL English

L23 ANSWER 15 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1999:324389 BIOSIS
 DN PREV199900324389
 TI Saturation ***mutagenesis*** of the TATA box and upstream activator
 sequence in the haloarchaeal bop gene ***promoter*** .
 AU Baliga, Nitin S.; Dassarma, Shiladitya (1)
 CS (1) Department of Microbiology, University of Massachusetts, 203 Morrill
 Science Center IV-N, Amherst, MA, 01003 USA
 SO Journal of Bacteriology, (April, 1999) Vol. 181, No. 8, pp. 2513 - 2518.

ISSN: 0021-9193.

DT Article
LA English

L23 ANSWER 16 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1999:213703 BIOSIS

DN PREV199900213703

TI T-DNA tagging of nodulation- and root-related genes in *Lotus japonicus*:
Expression patterns and potential for ***promoter*** trapping and
insertional ***mutagenesis***.

AU Martirani, Luca; Stiller, Jiri; Mirabella, Rossana; Alfano, Flora;
Lamberti, Alessandro; Radutoiu, Simona E.; Iaccarino, Maurizio; Gresshoff,
Peter M.; Chiurazzi, Maurizio (1)

CS (1) International Institute of Genetics and Biophysics, Via Marconi 12,
80125, Napoli Italy

SO Molecular Plant-Microbe Interactions, (April, 1999) Vol. 12, No. 4, pp.
275-284.

ISSN: 0894-0282.

DT Article
LA English
SL English

L23 ANSWER 17 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1996:523921 BIOSIS

DN PREV199699246277

TI ***Mutagenesis*** of the P2 ***promoter*** of the major outer
membrane protein gene of *Chlamydia trachomatis*.

AU Douglas, Annemarie L.; Hatch, Thomas P. (1)

CS (1) Dep. Microbiol. Immunol., Univ. Tennessee, Memphis, TN 38163 USA

SO Journal of Bacteriology, (1996) Vol. 178, No. 19, pp. 5573-5578.

ISSN: 0021-9193.

DT Article
LA English

L23 ANSWER 18 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1996:437342 BIOSIS

DN PREV199699150948

TI Resection and ***mutagenesis*** of the acid pH-inducible P2
promoter of the *Agrobacterium tumefaciens* virG gene.

AU Chang, Chia-Hwa; Winans, Stephen C. (1)

CS (1) Section Microbiol., Cornell Univ., Ithaca, NY 14853 USA

SO Journal of Bacteriology, (1996) Vol. 178, No. 15, pp. 4717-4720.

ISSN: 0021-9193.

DT Article
LA English

L23 ANSWER 19 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1996:242595 BIOSIS

DN PREV199698790724

TI Characterization of the distal ***promoter*** element of halobacteria
in vivo using saturation ***mutagenesis*** and selection.

AU Danner, Stefan; Soppa, Joerg (1)

CS (1) Max-Planck-Institut fuer Biochemie, Am Klopferspitz, 82152 Martinsried
Germany

SO Molecular Microbiology, (1996) Vol. 19, No. 6, pp. 1265-1276.

ISSN: 0950-382X.

DT Article

LA English

L23 ANSWER 20 OF 107 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:533698 BIOSIS
DN PREV199598547998
TI Site-directed ***mutagenesis*** of the enhancer region of the 780 gene
promoter of T-DNA.
AU O'Grady, Kevin; Gurley, William B. (1)
CS (1) Dep. Microbiol. Cell Sci., Program Plant Mol. Cell. Biol., Box 110700,
Univ. Fla., Gainesville, FL 32611-0700 USA
SO Plant Molecular Biology, (1995) Vol. 29, No. 1, pp. 99-108.
ISSN: 0167-4412.
DT Article
LA English

=> s l23 and plant/ab
'AB' IS NOT A VALID FIELD CODE
'AB' IS NOT A VALID FIELD CODE
L26 3 L23 AND PLANT/AB

=> s l23 and plant/au
L27 0 L23 AND PLANT/AU

=> s l23 and plant/ti
L28 0 L23 AND PLANT/TI

=> s l23 and plant
L29 11 L23 AND PLANT

=> d l29 1-11

L29 ANSWER 1 OF 11 AGRICOLA
AN 2000:21389 AGRICOLA
DN IND22019151
TI T-DNA tagging of nodulation- and root-related genes in Lotus japonicus:
expression patterns and potential for ***promoter*** trapping and
insertional ***mutagenesis*** .
AU Martirani, L.; Stiller, J.; Mirabella, R.; Alfano, F.; Lamberti, A.;
Radutoiu, S.E.; Iaccarino, M.; Gresshoff, P.M.; Chiurazzi, M.
CS Universita Federico II, Napoli, Italy.
SO Molecular plant-microbe interactions : MPMI, Apr 1999. Vol. 12, No. 4. p.
275-284
Publisher: St. Paul, MN : APS Press, [c1987-
CODEN: MPMIEL; ISSN: 0894-0282
NTE Includes references
CY Minnesota; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L29 ANSWER 2 OF 11 AGRICOLA
AN 94:74466 AGRICOLA
DN IND20422395
TI Site-specific ***mutagenesis*** of the nodule-infected cell expression
(NICE) element and the AT-rich element ATRE-BS2* of the Sesbania rostrata
leghemoglobin glb3 ***promoter*** .

AU Szczyglowski, K.; Szabados, L.; Fujimoto, S.Y.; Silver, D.; De Bruijn, F.J.
AV DNAL (QK725.P532)
SO The Plant cell, Mar 1994. Vol. 6, No. 3. p. 317-332
Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989-
CODEN: PLCEEW; ISSN: 1040-4651
NTE Includes references
CY Maryland; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L29 ANSWER 3 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1999:213703 BIOSIS
DN PREV199900213703
TI T-DNA tagging of nodulation- and root-related genes in Lotus japonicus: Expression patterns and potential for ***promoter*** trapping and insertional ***mutagenesis*** .
AU Martirani, Luca; Stiller, Jiri; Mirabella, Rossana; Alfano, Flora; Lamberti, Alessandro; Radutoiu, Simona E.; Iaccarino, Maurizio; Gresshoff, Peter M.; Chiurazzi, Maurizio (1)
CS (1) International Institute of Genetics and Biophysics, Via Marconi 12, 80125, Napoli Italy
SO Molecular Plant-Microbe Interactions, (April, 1999) Vol. 12, No. 4, pp. 275-284.
ISSN: 0894-0282.
DT Article
LA English
SL English

L29 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:533698 BIOSIS
DN PREV199598547998
TI Site-directed ***mutagenesis*** of the enhancer region of the 780 gene ***promoter*** of T-DNA.
AU O'Grady, Kevin; Gurley, William B. (1)
CS (1) Dep. Microbiol. Cell Sci., Program Plant Mol. Cell. Biol., Box 110700, Univ. Fla., Gainesville, FL 32611-0700 USA
SO Plant Molecular Biology, (1995) Vol. 29, No. 1, pp. 99-108.
ISSN: 0167-4412.
DT Article
LA English

L29 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:510263 BIOSIS
DN PREV199598515313
TI The hypBFCDE operon from Rhizobium leguminosarum biovar viciae is expressed from an Fnr-type ***promoter*** that escapes ***mutagenesis*** of the fnrN gene.
AU Hernando, Yolanda; Palacios, Jose-Manuel; Imperial, Juan; Ruiz-Argueso, Tomas (1)
CS (1) Lab. Microbiol. E. T.S. Ingenieros Agronomos, Univ. Politecnica Madrid, Ciudad Universitaria, s/n. E-28040 Madrid Spain
SO Journal of Bacteriology, (1995) Vol. 177, No. 19, pp. 5661-5669.
ISSN: 0021-9193.
DT Article

LA English

L29 ANSWER 6 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1994:225729 BIOSIS
DN PREV199497238729
TI Site-specific ***mutagenesis*** of the nodule-infected cell expression
(NICE) element and the AT-rich element ATRE-BS2 of the Sesbania rostrata
leghemoglobin glb3 ***promoter***
AU Szczygłowski, Krzysztof; Szabados, Laszlo; Fujimoto, Susan Y.; Silver,
David; De Bruijn, Frans J. (1)
CS (1) MSU-DOE Plant Research Laboratory, Michigan State University, Wilson
Rd., East Lansing, MI 48824-1312 USA
SO Plant Cell, (1994) Vol. 6, No. 3, pp. 317-332.
ISSN: 1040-4651.
DT Article
LA English

L29 ANSWER 7 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1993:273943 BIOSIS
DN PREV199396004168
TI Azorhizobium caulinodans nitrogen fixation (nif/fix) gene regulation:
Mutagenesis of the nifA negative 24/negative 12 ***promoter***
element, characterization of a ntrA(rpoN) gene, and derivation of a model.
AU Stigter, John; Schneider, Maria; De Bruijn, Frans J. (1)
CS (1) MSU-doe Plant Res. Lab., Michigan State Univ., East Lansing, MI 48824
USA
SO Molecular Plant-Microbe Interactions, (1993) Vol. 6, No. 2, pp. 238-251.
ISSN: 0894-0282.
DT Article
LA English

L29 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1999:244304 CAPLUS
DN 131:83628
TI T-DNA tagging of nodulation- and root-related genes in Lotus japonicus:
expression patterns and potential for ***promoter*** trapping and
insertional ***mutagenesis***
AU Martirani, Luca; Stiller, Jiri; Mirabella, Rossana; Alfano, Flora;
Lamberti, Alessandro; Radutoiu, Simona E.; Iaccarino, Maurizio; Gresshoff,
Peter M.; Chiurazzi, Maurizio
CS International Institute of Genetics and Biophysics, Naples, 80125, Italy
SO Molecular Plant-Microbe Interactions (1999), 12(4), 275-284
CODEN: MPMIEL; ISSN: 0894-0282
PB APS Press
DT Journal
LA English

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1998:333020 CAPLUS
DN 129:104818
TI Dissecting embryonic and seedling morphogenesis in Arabidopsis by
promoter trap insertional ***mutagenesis***
AU Lindsey, Keith; Topping, Jennifer F.; Muskett, Paul R.; Wei, Wenbin;
Horne, Kirsty L.
CS Department of Biological Sciences, University of Durham, Durham, DH1 3LE,

UK

SO Symposia of the Society for Experimental Biology (1998), 51(Control of Plant Development: Genes and Signals), 1-10
CODEN: SSEBA9; ISSN: 0081-1386

PB Company of Biologists Ltd.

DT Journal

LA English

L29 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1994:673626 CAPLUS
DN 121:273626
TI Site-specific ***mutagenesis*** of the nodule-infected cell expression (NICE) element and the AT-rich element ATRE-BS2* of the Sesbania rostrata leghemoglobin glb3 ***promoter***
AU Szczyglowski, Krzysztof; Szabados, Laszlo; Fujimoto, Susan Y.; Silver, David; de Bruijn, Frans J.
CS Michigan State Univ., East Lansing, MI, 48824-1312, USA
SO Plant Cell (1994), 6(3), 317-32
CODEN: PLCEEW; ISSN: 1040-4651
DT Journal
LA English

L29 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1994:70677 CAPLUS
DN 120:70677
TI Site-directed ***mutagenesis*** of the organ-specific element in the soybean leghemoglobin lbc3 gene ***promoter***
AU Ramlov, Karsten Bak; Laursen, Niels Bech; Stougaard, Jens; Marcker, Kjeld A.
CS Dep. Mol. Biol., Univ. Aarhus, Aarhus, DK-8000, Den.
SO Plant J. (1993), 4(3), 577-580
CODEN: PLJUED; ISSN: 0960-7412
DT Journal
LA English

=> s l18 and point(w)mutation/ti
L30 104 L18 AND POINT(W) MUTATION/TI

=> s l30 and plant/ti
L31 0 L30 AND PLANT/TI

=> s l30 and plant
L32 2 L30 AND PLANT

=> d l32 1-2

L32 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:82761 BIOSIS
DN PREV199698654896
TI Functional analysis of linker insertions and ***point***
mutations in the alpha-Amy2/54 GA-regulated ***promoter*** .
AU Tregear, James W.; Primavesi, Lucia F.; Huttly, Alison K. (1)
CS (1) IARC-Long Ashton Res. Station, Dep. Agric. Sci., Univ. Bristol, Long Ashton, Bristol BS18 9AF UK
SO Plant Molecular Biology, (1995) Vol. 29, No. 4, pp. 749-758.
ISSN: 0167-4412.

DT Article
LA English

L32 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1996:21950 CAPLUS

DN 124:78601

TI Functional analysis of linker insertions and ***point***
mutations in the .alpha.-Amy2/54 GA-regulated ***promoter***

AU Tregear, James W.; Primavesi, Lucia F.; Huttly, Alison K.

CS IACR-Long Ashton Research Station, University Bristol, Long Ashton,
Bristol, BS18 9AF, UK

SO Plant Mol. Biol. (1995), 29(4), 749-58

CODEN: PMBIDB; ISSN: 0167-4412

DT Journal

LA English

=> d 132 1 ab

L32 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB Functional analysis of a gibberellin-regulated wheat alpha-amylase promoter, alpha-Amy2/54, has indicated that three regions were essential for expression. By studying the ability of mutant promoters, containing a randomly inserted 22 bp excision linker, to direct expression in oat aleurone protoplasts we have refined the positions and extents of these three cis elements and also demonstrated the presence of two additional elements. By converting the linker insertions to either single base point mutations or deletions using the class IIS restriction endonuclease Bsm I we have shown that nucleotides - 119 and - 109 within the GARE -121GTAACAGAGTCTGG-108 and nucleotide -152 within the proposed element -156GATTGACTTGACC-144 are essential for high level expression from this promoter.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 293.08 | 293.29 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -0.62 | -0.62 |

STN INTERNATIONAL LOGOFF AT 14:43:22 ON 18 JUN 2002